INTERNATIONAL SEARCH REPORT

Internal Application No PCT/JP2004/005327

A. CLASSIF IPC 7	HO1F27/28 HO1F27/32 HO5B6/66													
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01F H05B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched														
									ata base consulted during the International search (name of data bas	se and, where practical, search terms used)				
								C. DOCUMENTS CONSIDERED TO BE RELEVANT						
								Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.			
X	EP 0 364 171 A (MATSUSHITA ELECTF LTD) 18 April 1990 (1990-04-18) abstract; figures 2,3,9,11	1-5												
X	EP 1 058 279 A (SHARP KK) 6 December 2000 (2000-12-06) abstract; figures 1,19	1,3-5												
А	US 6 449 178 B1 (MATSUKURA TOYOTS AL) 10 September 2002 (2002-09-10 column 13, line 58 - column 14, figures 1,6	0)	4											
Furt	ther documents are listed in the continuation of box C.	Patent family members are listed	n annex.											
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention (annot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family												
	e actual completion of the international search	Date of mailing of the international search report 23/07/2004												
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Durville, G												

INTERNATIONAL SEARCH REPORT

Information on patent family members

intermonal Application No
PCT/JP2004/005327

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 0364171 A	18-04-1990	JP JP JP	2103888 A 2506995 B2 2158086 A	16-04-1990 12-06-1996 18-06-1990
		JP	2516413 B2	24-07-1996
		AU	604197 B2	06-12-1990
		AU	4285789 A	03-05-1990
		BR	8905183 A	15-05-1990
		CA	2000467 A1	13-04-1990
			68919640 D1	12-01-1995
		DE DE	68919640 T2	06-07-1995
		EP	0364171 A2	18-04-1990
		KR	9206270 B1	01-08-1992
		US	4977301 A	11-12-1990
1		US	4977301 A	11-12-1990
EP 1058279 A	06-12-2000	JP	2001052935 A	23-02-2001
1 10002/7		CN	1282081 A	31-01-2001
		ΕP	1058279 A1	06-12-2000
		US	6297593 B1	02-10-2001
US 6449178 B1	10-09-2002	JP	3061052 B2	10-07-2000
00 0115270	#C 00	ĴΡ	2000357616 A	26-12-2000
		ĴΡ	2000357617 A	26-12-2000
		ĴΡ	3436226 B2	11-08-2003
		ĴΡ	2001185428 A	06-07-2001
		ĴΡ	3468186 B2	17-11-2003
		JР	2001185429 A	06-07-2001
		ĂÜ	772157 B2	08-04-2004
		AU	5426700 A	02-01-2001
		CN	1316173 T	03-10-2001
		DE	60004311 D1	11-09-2003
		DE	60004311 T2	29-01-2004
		ĒΡ	1106036 A1	13-06-2001
		WO	0078100 A1	21-12-2000